

## Abstract

A system and a method are realized in which in a conventional non-grounding man-machine interface having no reaction base on the human body and for giving the existence of a virtual object and the impact force of a collision to a person, a haptic sensation of a torque, a force and the like can be continuously presented in the same direction, which can not be presented by only the physical characteristic of a haptic sensation presentation device. In a haptic presentation device 112, the rotation velocity of at least one rotator in the haptic presentation device 112 is controlled by a control device 111, and a vibration, a force or a torque as the physical characteristic is controlled, so that the user 110 is made to conceive various haptic information of the vibration, force, torque or the like. The haptic information presentation system uses a human sensory characteristic or illusion to suitably control the physical quantity, and causes the person to feel a force which can not exist physically, or a haptic sensory physical characteristic.